20010° 9885760

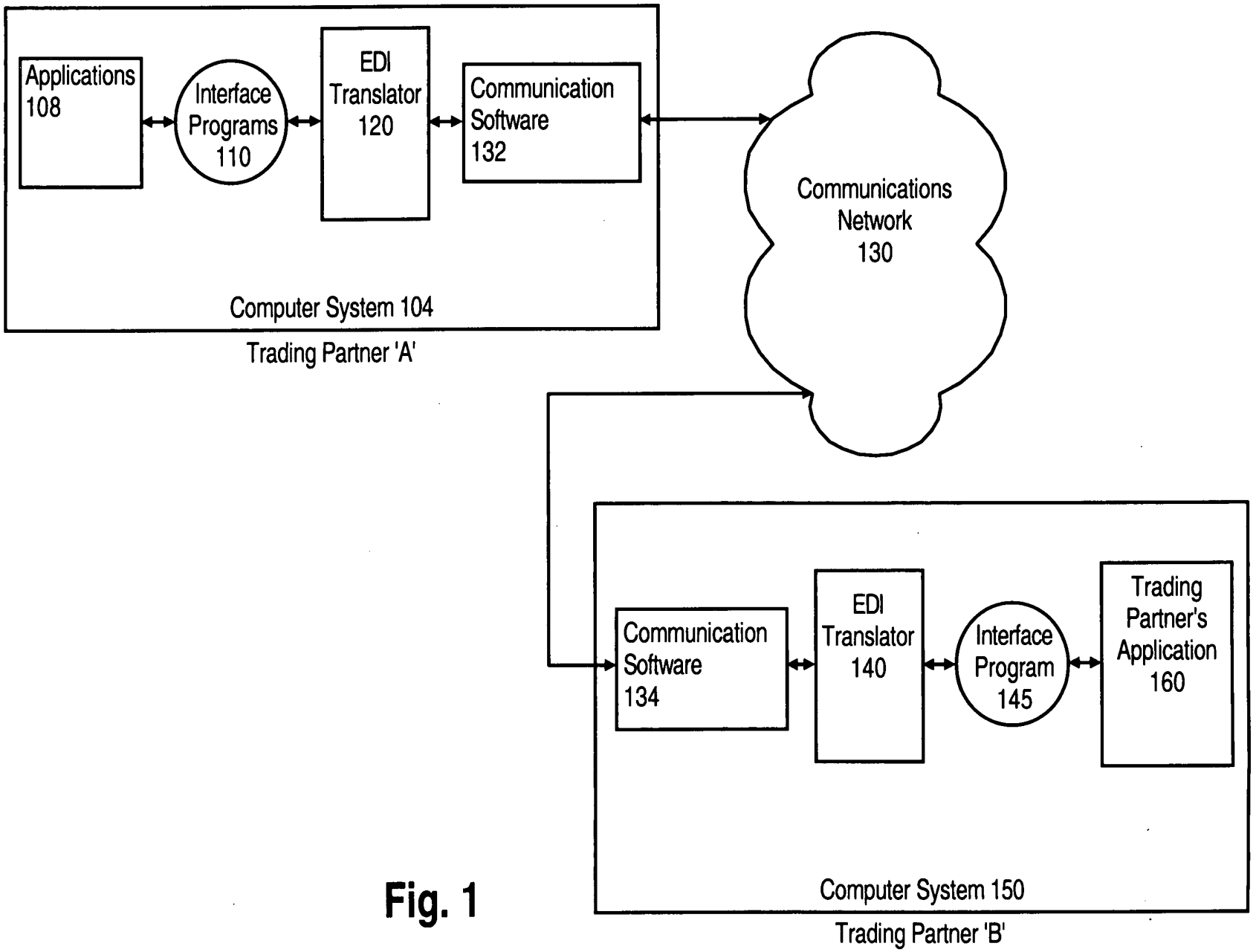


Fig. 1

APPLICATION CODE CONVERSION ARCHITECTURE
Inventor(s): Garret Minakawa, et al.
Appl. No.: 09/775,886
Docket No. 50277-1639 Sheet 1 of 8

#3

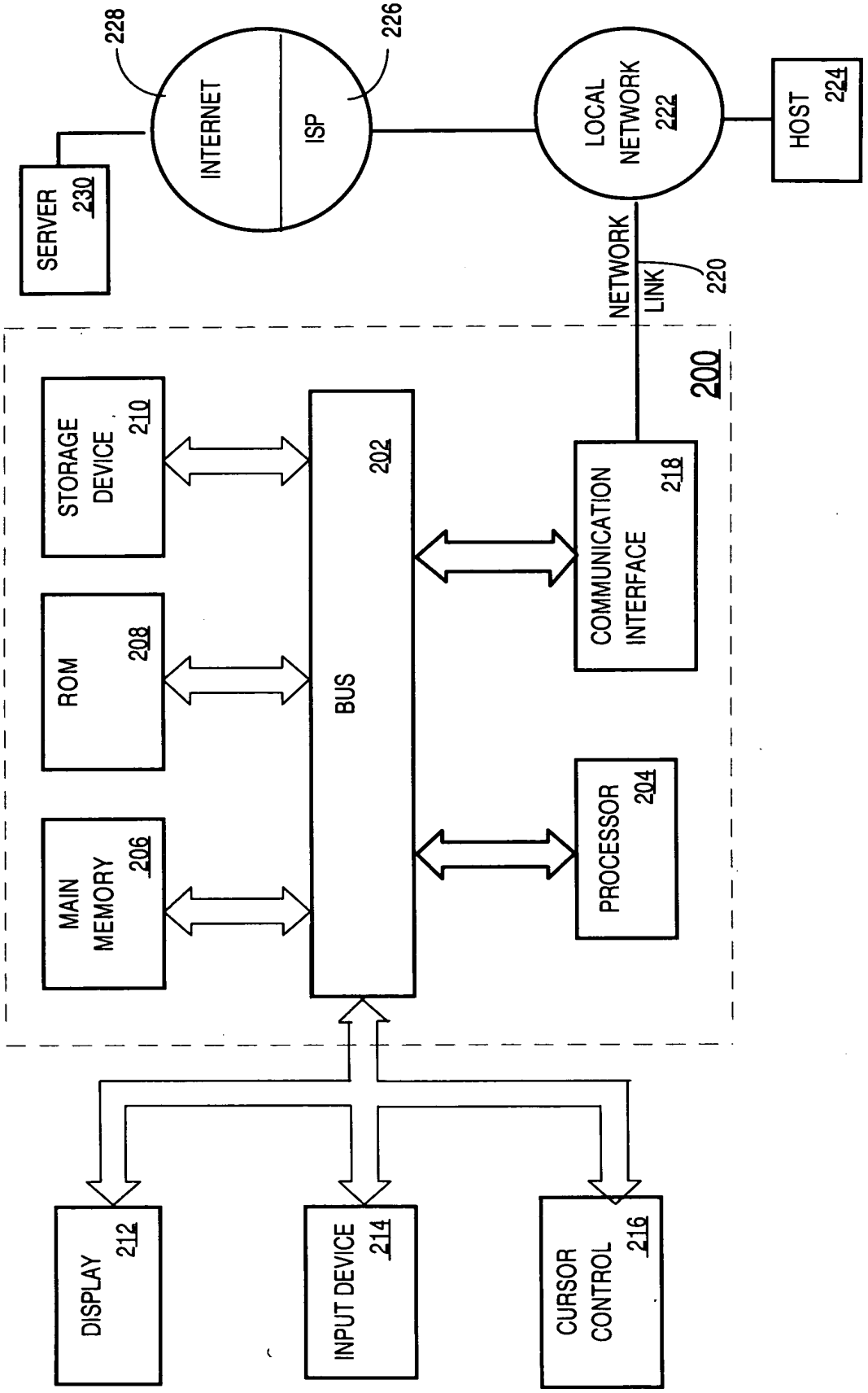
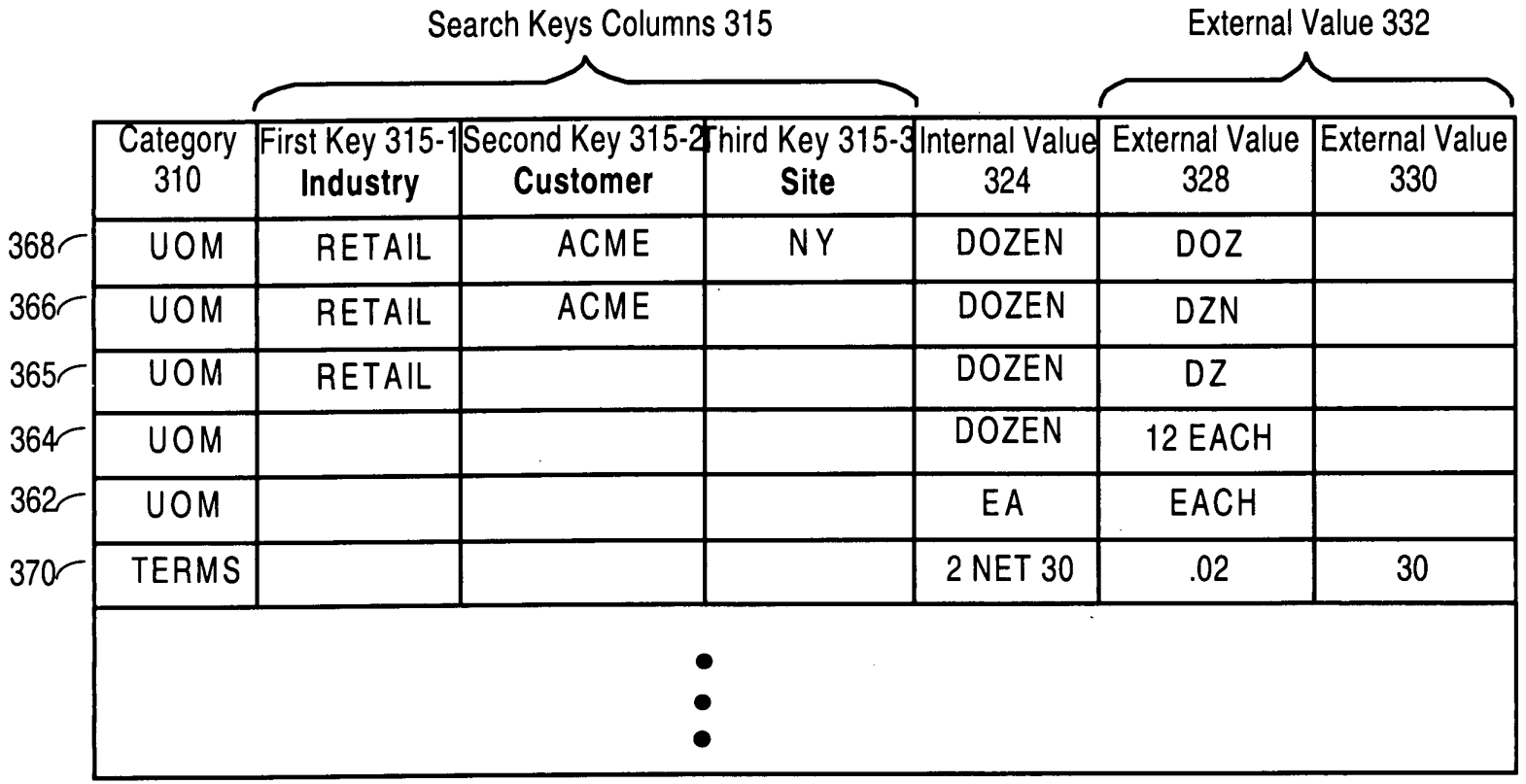


Fig. 2

Express Mail Label No. EL 840 022 450

20010 9985460



Code Conversion Rule Table 300

Fig. 3

Title: APPLICATION CODE CONVERSION ARCHITECTURE
Inventor(s): Garret Minakawa, et al.
Serial No.: 09/775,886
Docket No. 50277-1639
Sheet 3 of 8

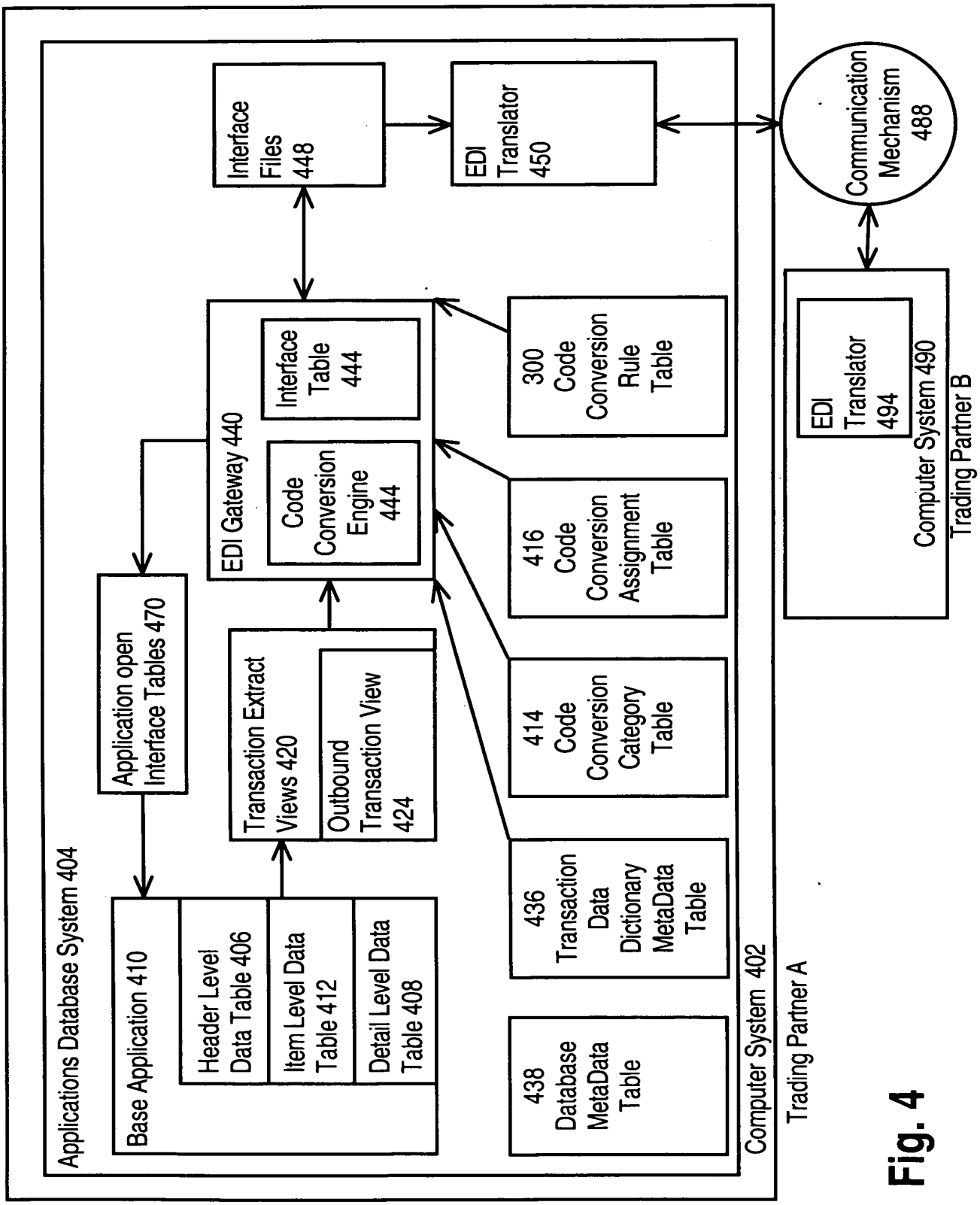

Computer System 402
Trading Partner A
Applications Database System 404
Base Application 410
Header Level Data Table 406
Item Level Data Table 412
Detail Level Data Table 408
438 Database MetaData Table
436 Transaction Data Dictionary MetaData Table
414 Code Conversion Category Table
416 Code Conversion Assignment Table
300 Code Conversion Rule Table
Application open Interface Tables 470
Transaction Extract Views 420
Outbound Transaction View 424
EDI Gateway 440
Code Conversion Engine 444
Interface Table 444
Interface Files 448
EDI Translator 450
Communication Mechanism 488
Computer System 490
Trading Partner B
EDI Translator 494

Fig. 4

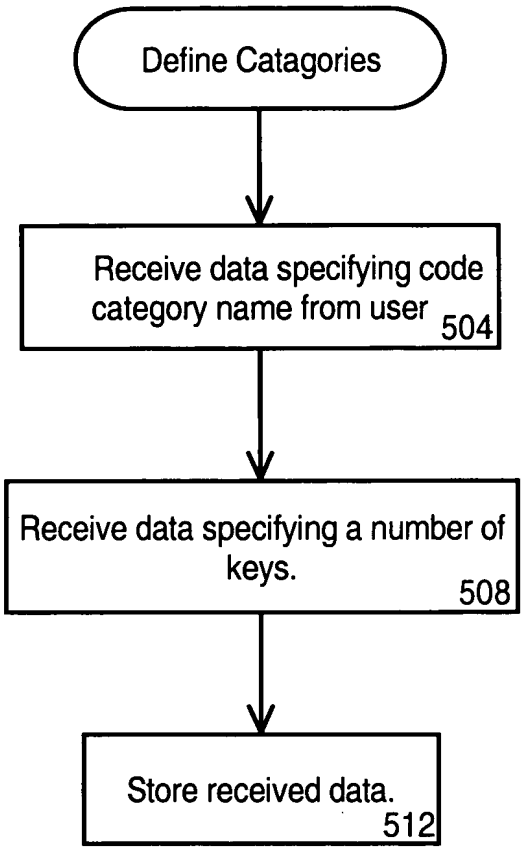


Fig. 5A

05/30/06, EAST Version: 2.0.1.8

09775886 040104

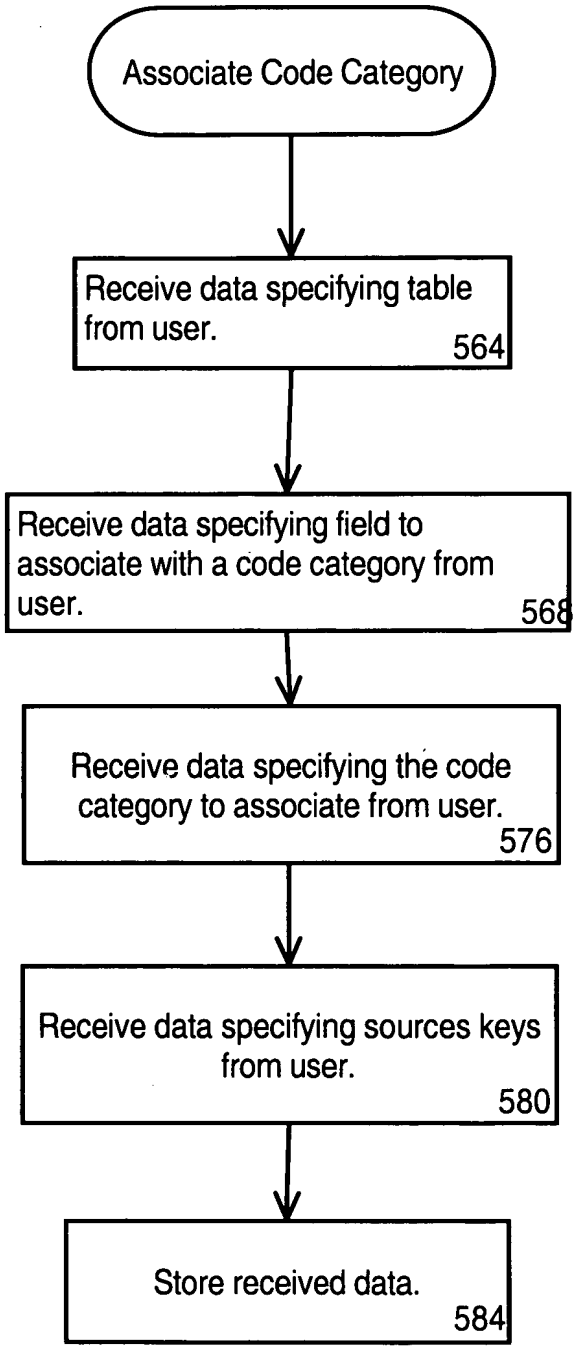


Fig. 5B

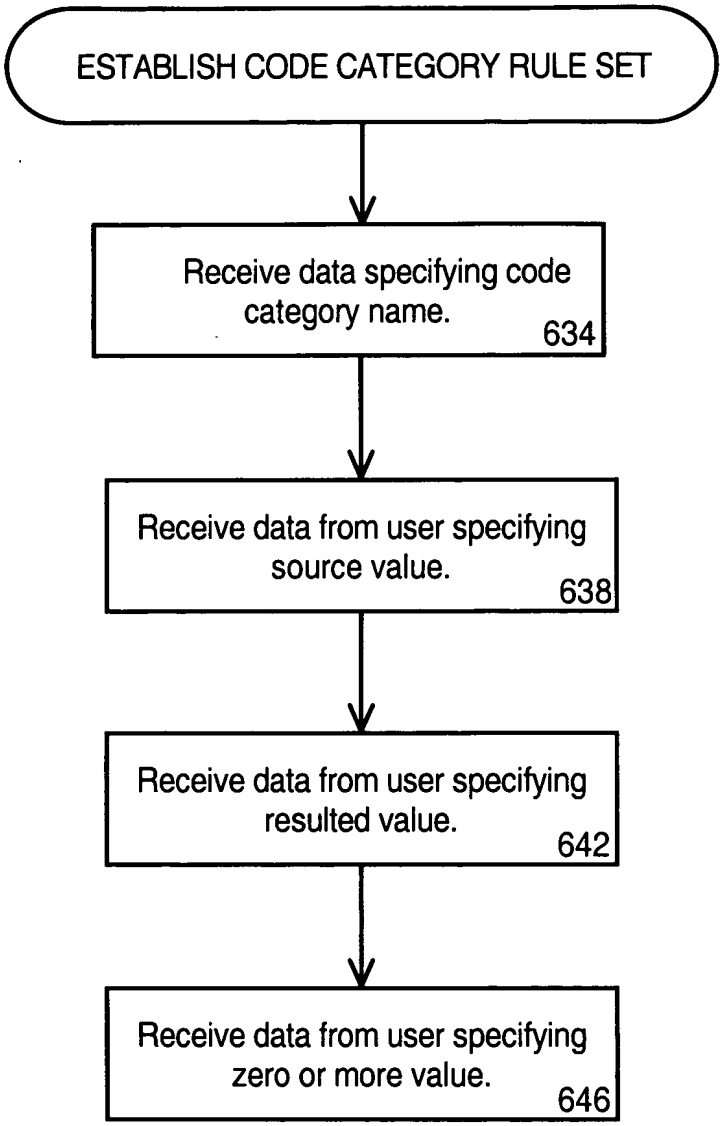

ESTABLISH CODE CATEGORY RULE SET
Receive data specifying code category name.
634
Receive data from user specifying source value.
638
Receive data from user specifying resulted value.
642
Receive data from user specifying zero or more value.
646

Fig. 6

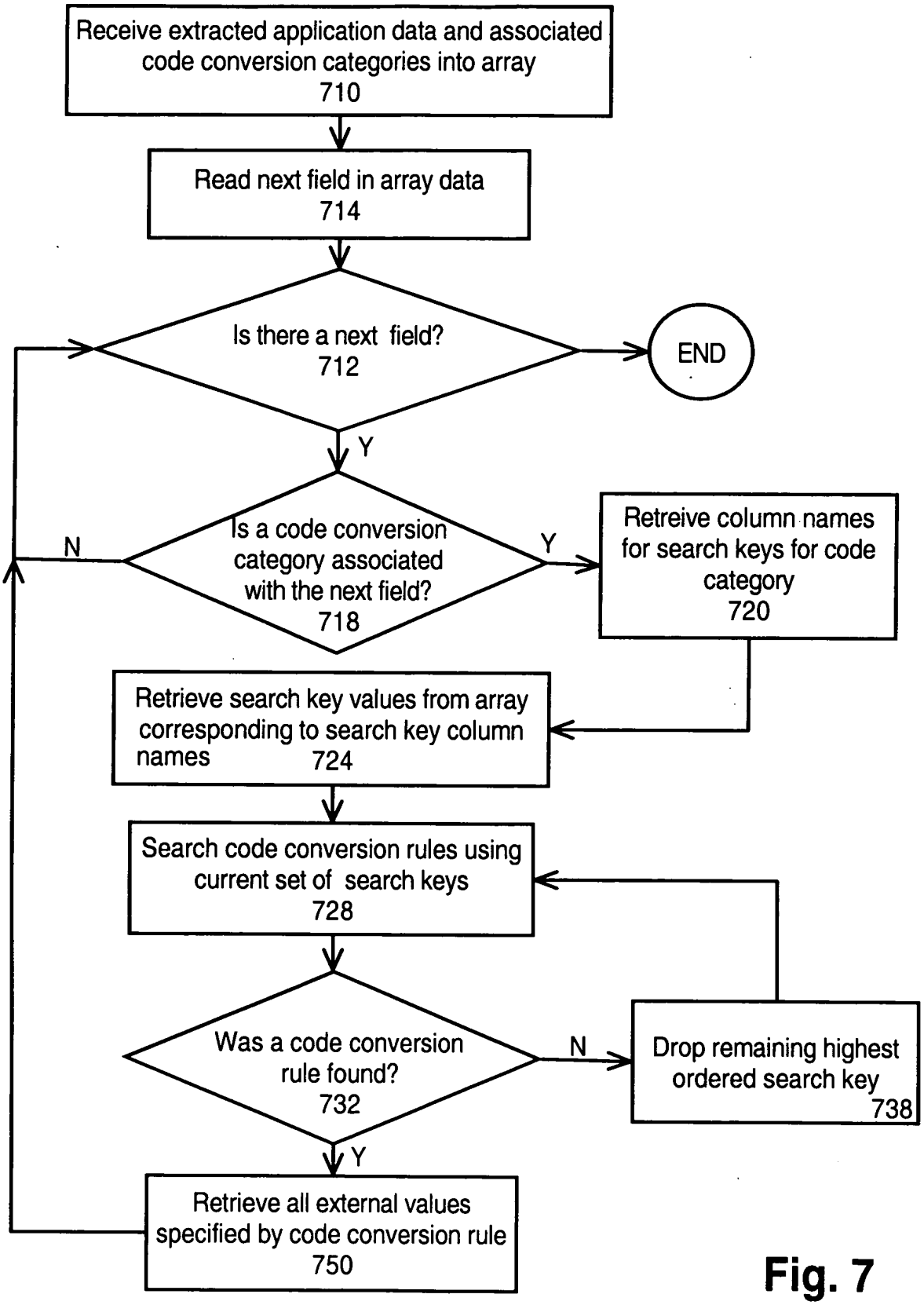

Receive extracted application data and associated code conversion categories into array
710
Read next field in array data
714
Is there a next field?
712
END
Y
Is a code conversion category associated with the next field?
718
N
Y
Retreive column names for search keys for code category
720
Retrieve search key values from array corresponding to search key column names
724
Search code conversion rules using current set of search keys
728
Was a code conversion rule found?
732
N
Drop remaining highest ordered search key
738
Y
Retrieve all external values specified by code conversion rule
750

Fig. 7